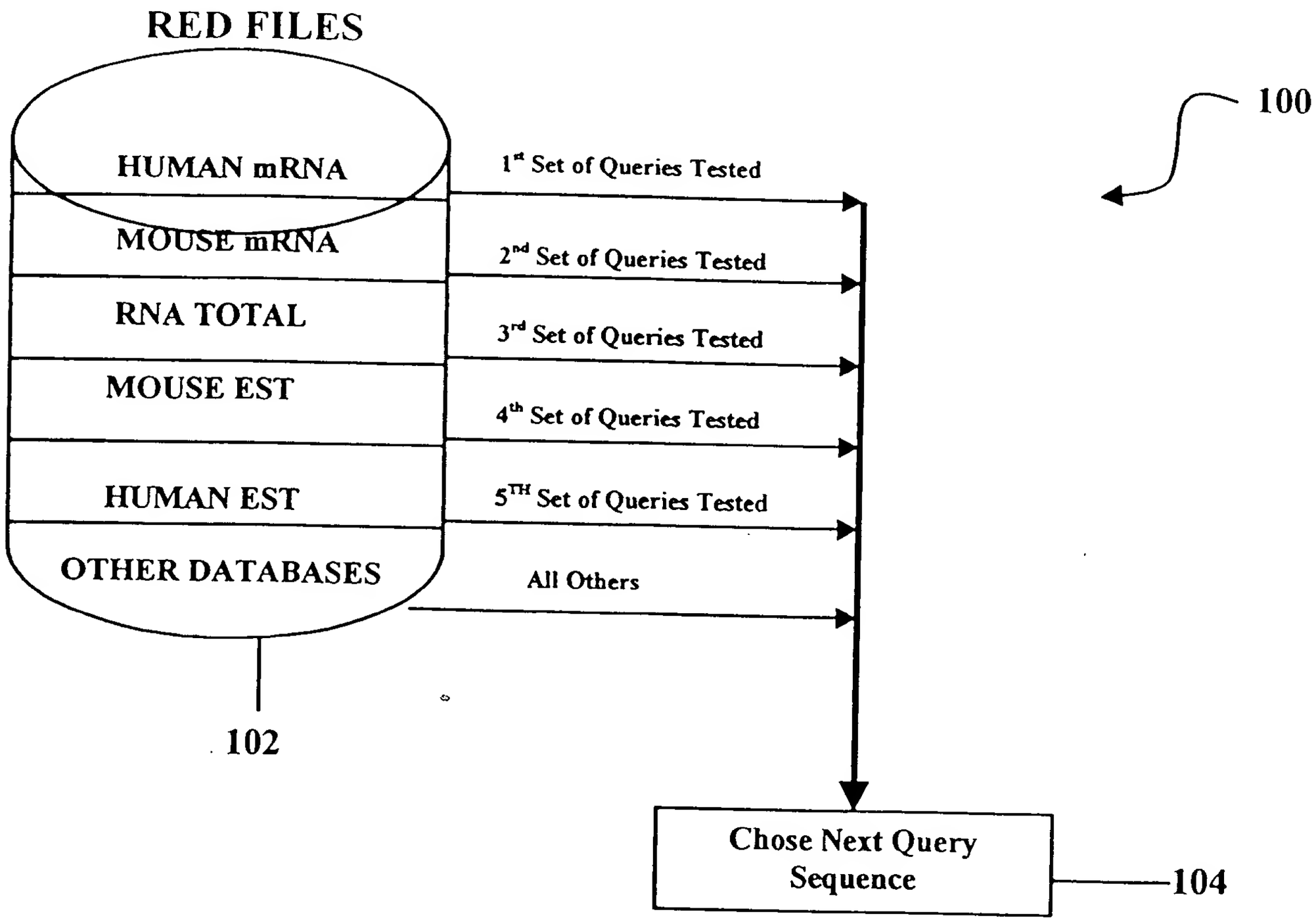
RED FILES
HUMAN mRNA
MOUSE mRNA
RNA TOTAL
MOUSE EST
HUMAN EST
OTHER DATABASES
1st Set of Queries Tested
2nd Set of Queries Tested
3rd Set of Queries Tested
4th Set of Queries Tested
5TH Set of Queries Tested
All Others
102
Chose Next Query Sequence
104
100

FIGURE 1A

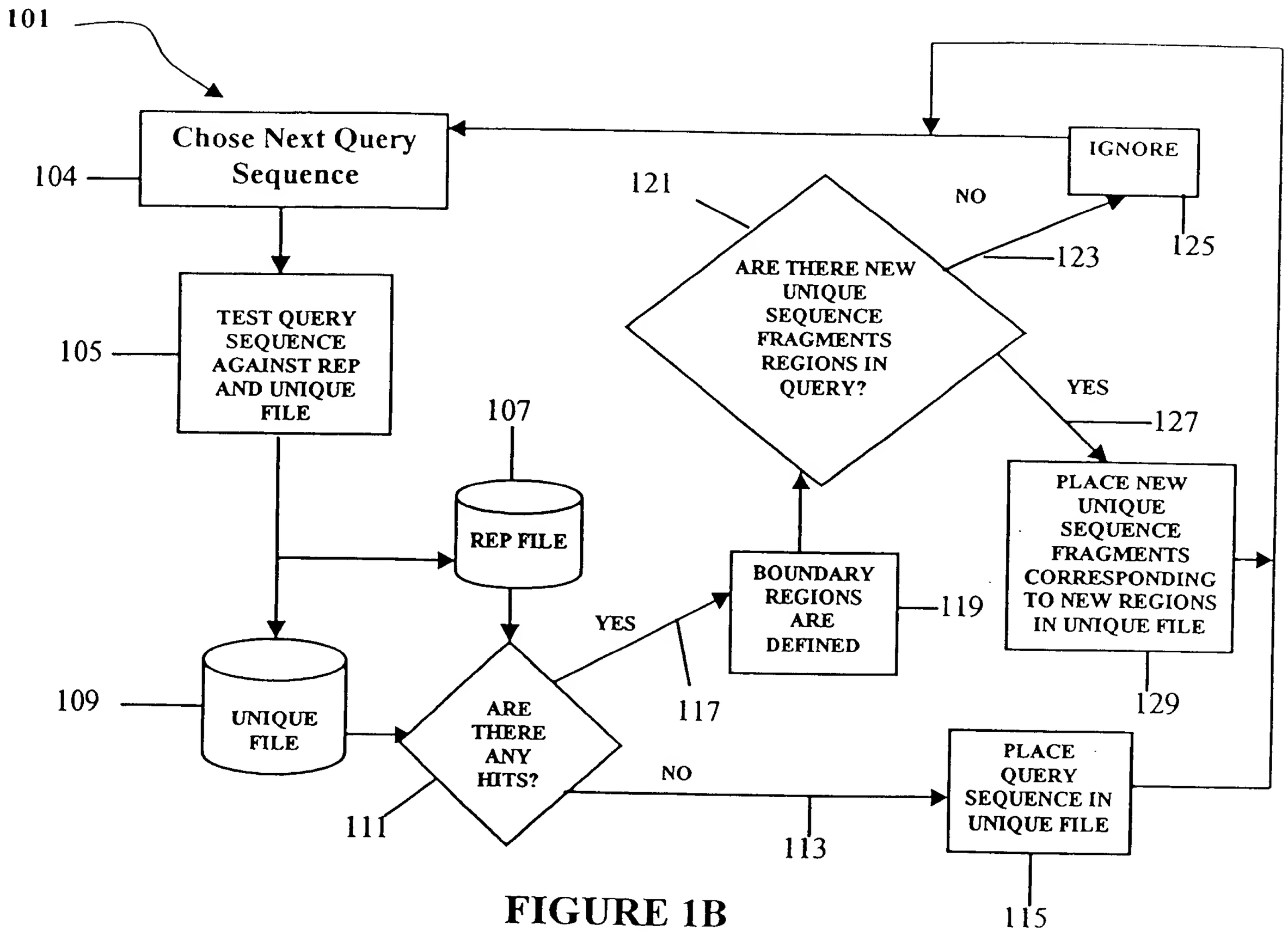
101
Chose Next Query Sequence
104
TEST QUERY SEQUENCE AGAINST REP AND UNIQUE FILE
105
107
REP FILE
109
UNIQUE FILE
ARE THERE ANY HITS?
111
YES
117
BOUNDARY REGIONS ARE DEFINED
119
NO
113
PLACE QUERY SEQUENCE IN UNIQUE FILE
115
121
ARE THERE NEW UNIQUE SEQUENCE FRAGMENTS REGIONS IN QUERY?
NO
123
IGNORE
125
YES
127
PLACE NEW UNIQUE SEQUENCE FRAGMENTS CORRESPONDING TO NEW REGIONS IN UNIQUE FILE
129

FIGURE 1B

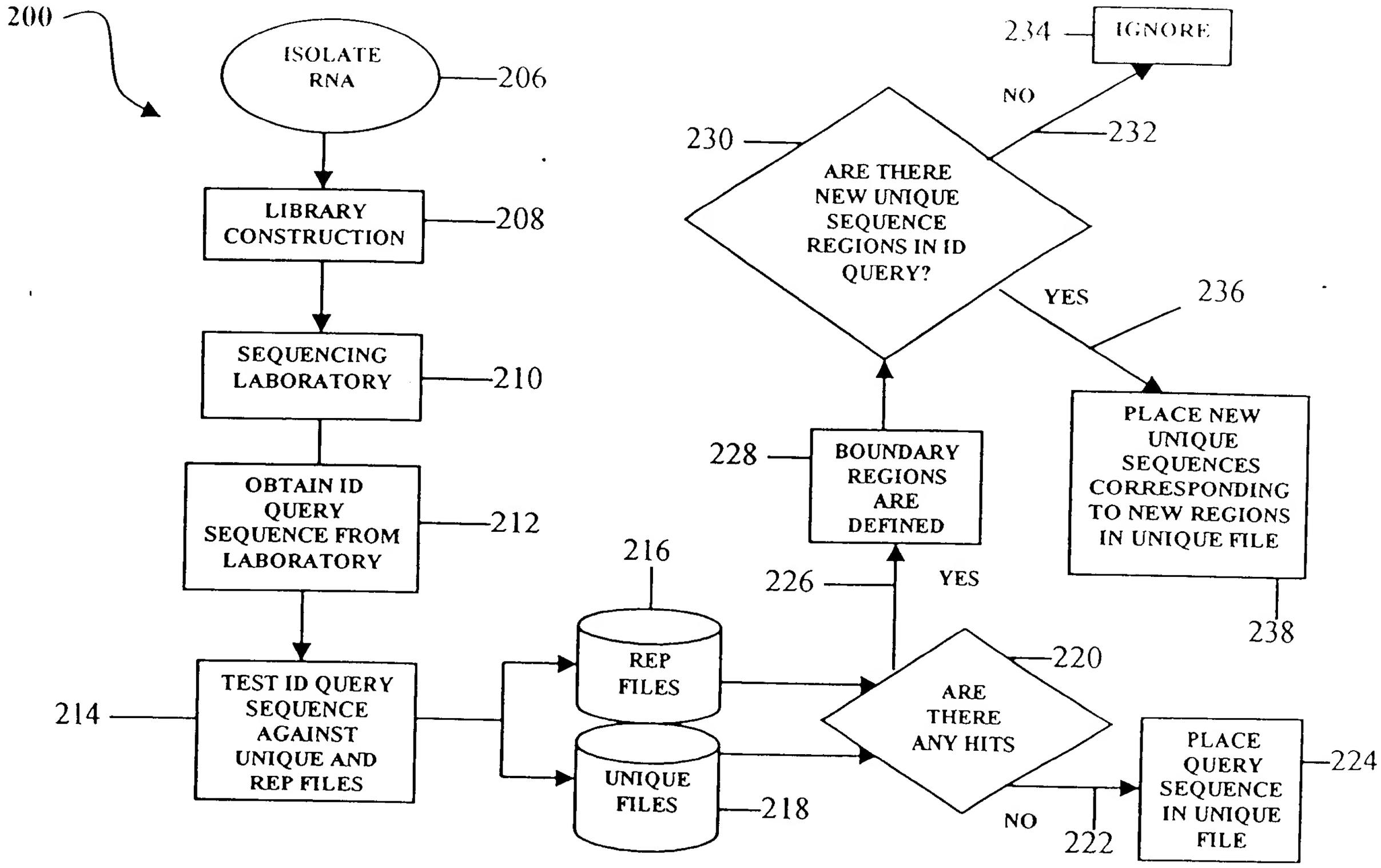
200
ISOLATE RNA
206
LIBRARY CONSTRUCTION
208
SEQUENCING LABORATORY
210
OBTAIN ID QUERY SEQUENCE FROM LABORATORY
212
TEST ID QUERY SEQUENCE AGAINST UNIQUE AND REP FILES
214
216
REP FILES
UNIQUE FILES
218
ARE THERE ANY HITS
220
NO
222
PLACE QUERY SEQUENCE IN UNIQUE FILE
224
YES
226
BOUNDARY REGIONS ARE DEFINED
228
ARE THERE NEW UNIQUE SEQUENCE REGIONS IN ID QUERY?
230
NO
232
IGNORE
234
YES
236
PLACE NEW UNIQUE SEQUENCES CORRESPONDING TO NEW REGIONS IN UNIQUE FILE
238

FIGURE 2

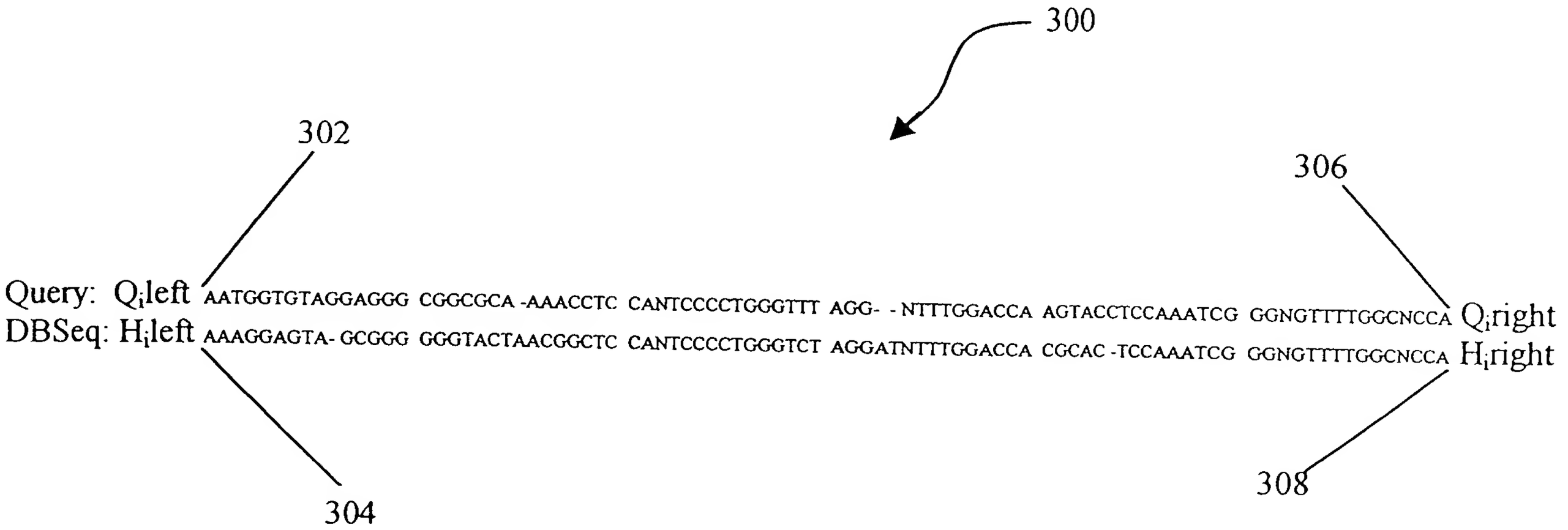
300
302
306
Query: Qileft AATGGTGTAGGAGGG CGGCGCA -AAACCTC CANTCCCCTGGGTTT AGG- - NTTTGGACCA AGTACCTCCAAATCG GGNGTTTTGGCNCCA Qiright
DBSeq: Hileft AAAGGAGTA- GCGGG GGGTACTAACGGCTC CANTCCCCTGGGTCT AGGATNTTTGGACCA CGCAC -TCCAAATCG GGNGTTTTGGCNCCA Hiright
304
308

Figure 3

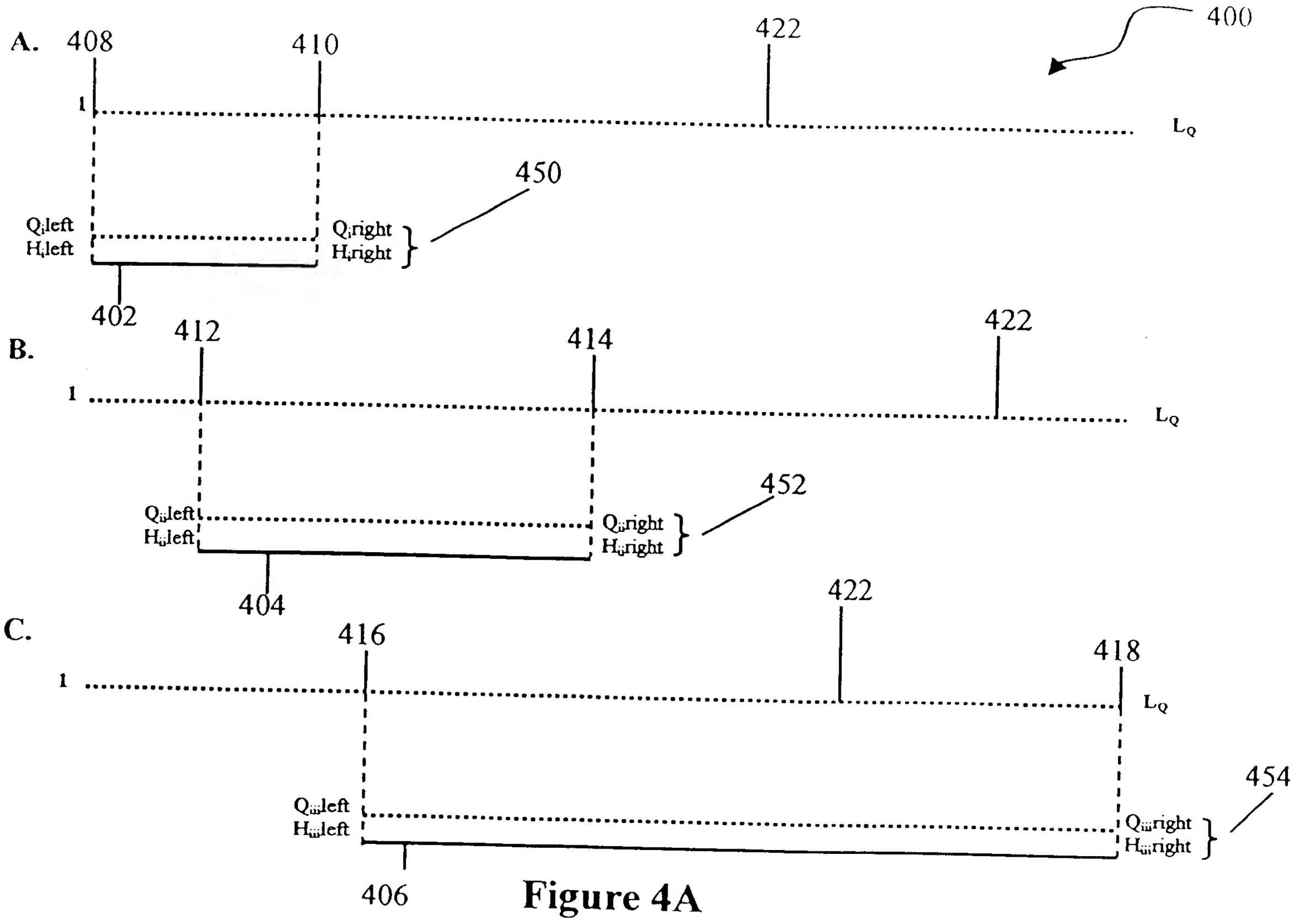

Figure 4A

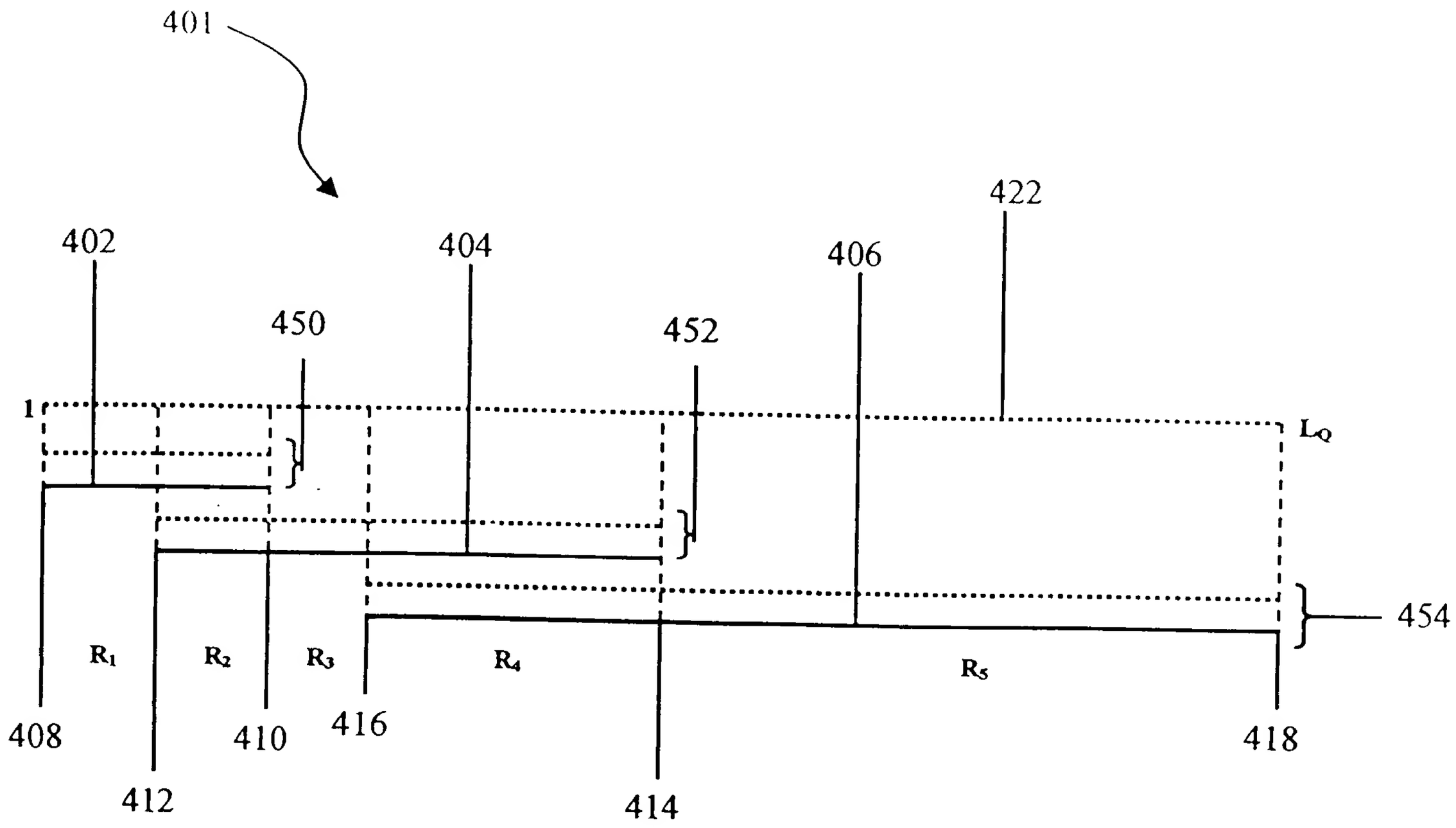
401
402
404
406
422
450
452
1
L_Q
454
R_1
R_2
R_3
R_4
R_5
408
410
412
414
416
418

Figure 4B

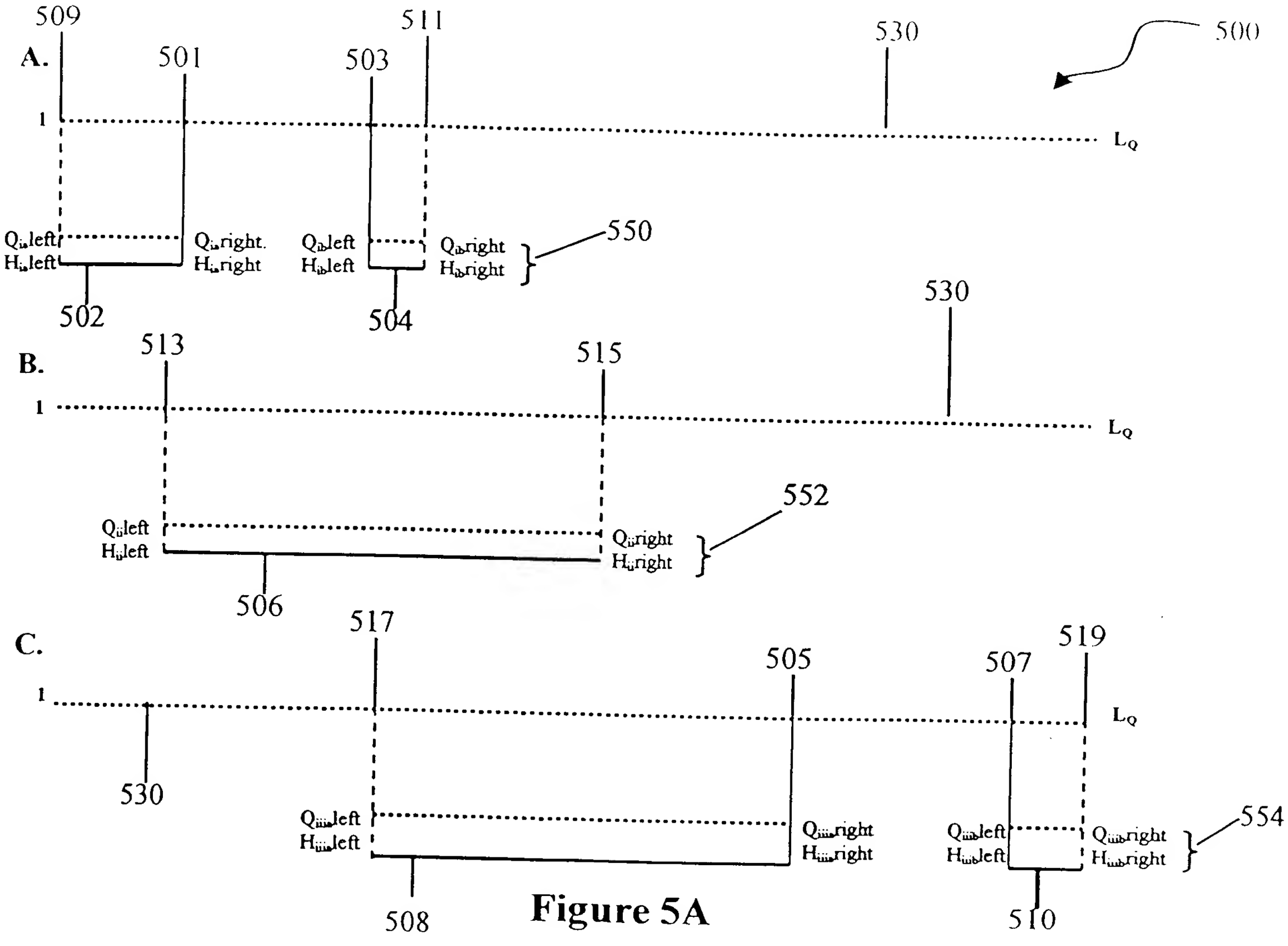
A.
509
501
503
511
530
500
1
L_Q
Q_{ia}left
H_{ia}left
Q_{ia}right.
H_{ia}right
Q_{ib}left
H_{ib}left
Q_{ib}right
H_{ib}right
550
502
504
B.
513
515
530
1
L_Q
Q_{ii}left
H_{ii}left
Q_{ii}right
H_{ii}right
552
506
C.
517
505
507
519
1
L_Q
530
Q_{iiia}left
H_{iiia}left
Q_{iiia}right
H_{iiia}right
Q_{iiib}left
H_{iiib}left
Q_{iiib}right
H_{iiib}right
554
508
510

Figure 5A

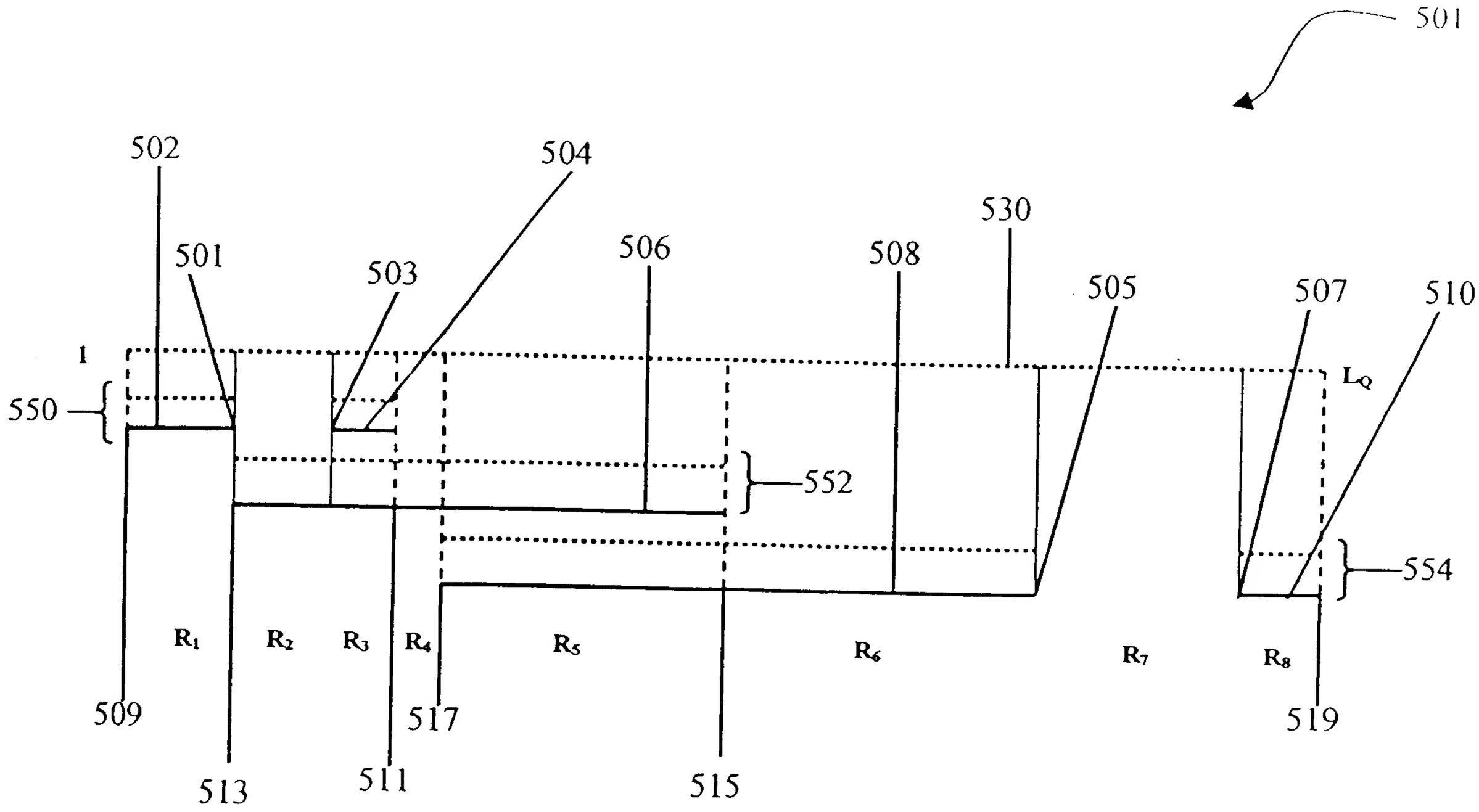
501
502
504
501
503
506
508
530
505
507
510
1
550
552
554
L_Q
R_1
R_2
R_3
R_4
R_5
R_6
R_7
R_8
509
513
511
517
515
519

Figure 5B

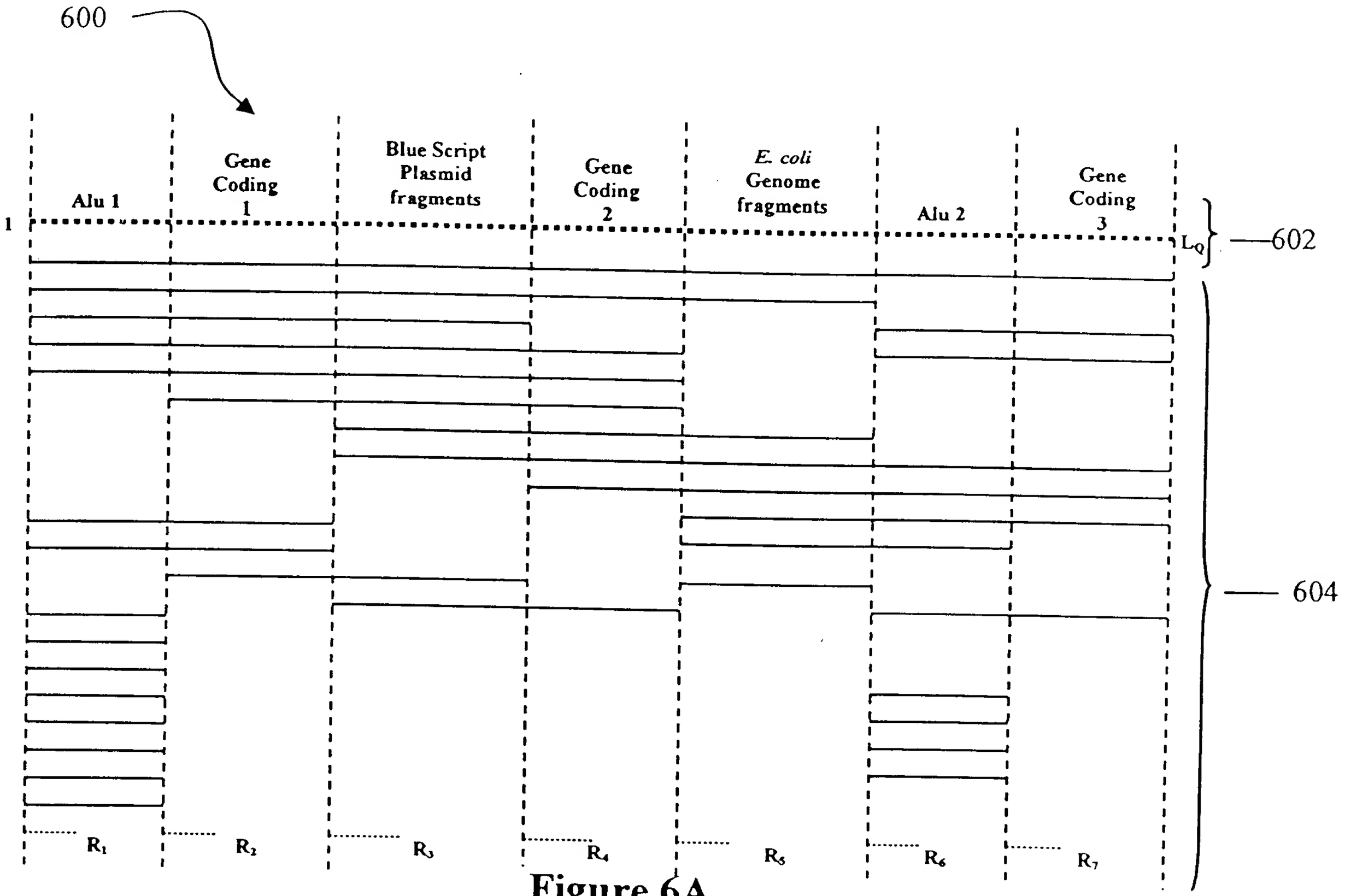
600
1
Alu 1
Gene Coding 1
Blue Script Plasmid fragments
Gene Coding 2
E. coli Genome fragments
Alu 2
Gene Coding 3
L_Q
602
604
R_1
R_2
R_3
R_4
R_5
R_6
R_7

Figure 6A

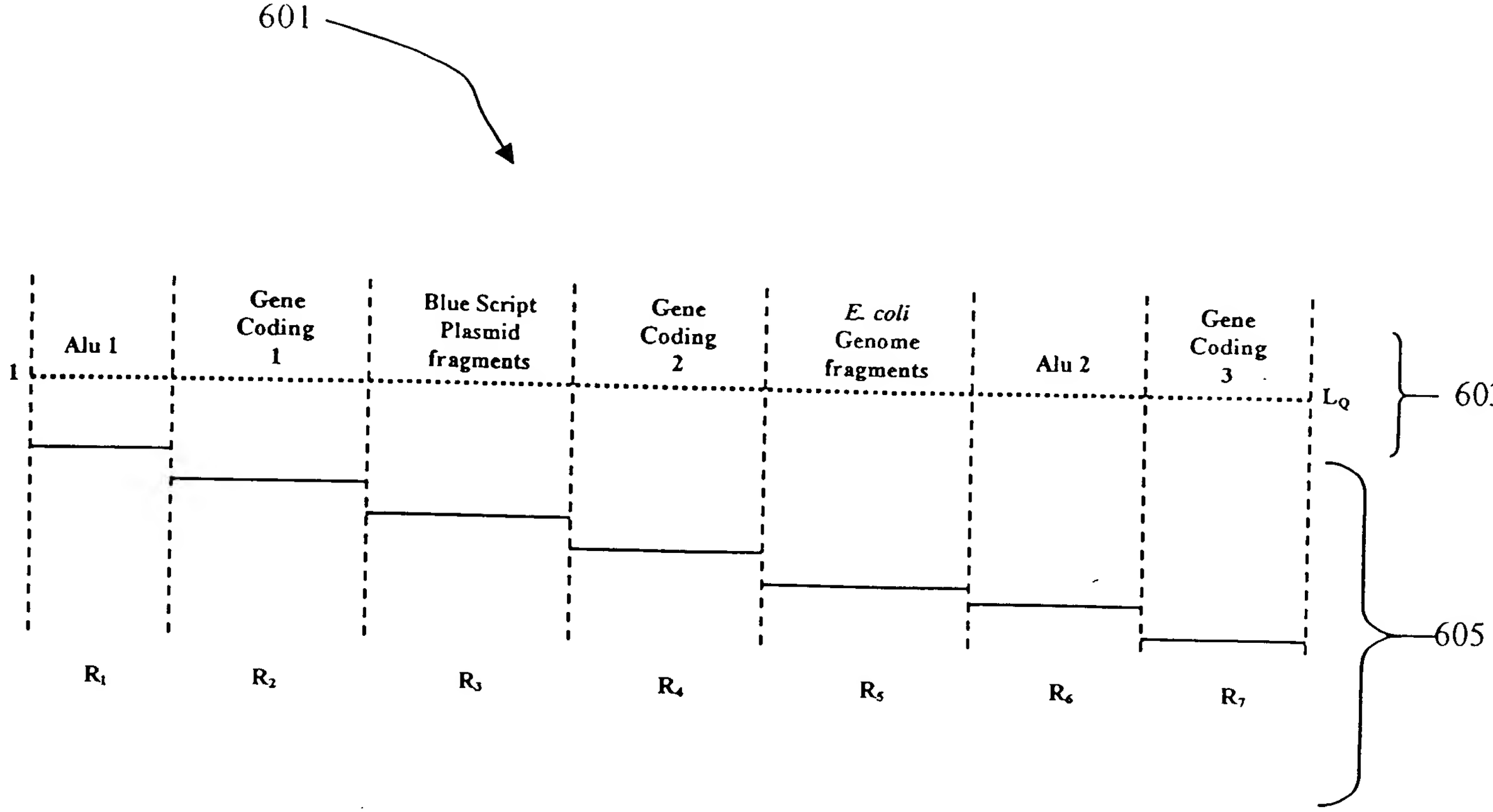
601
Alu 1
Gene Coding 1
Blue Script Plasmid fragments
Gene Coding 2
E. coli Genome fragments
Alu 2
Gene Coding 3
1
L_Q
603
605
R_1
R_2
R_3
R_4
R_5
R_6
R_7

Figure 6B